

# Brachytherapy in Partial Breast Irradiation (APBI)

**Chairmen:**

Vratislav Strnad, MD, PhD, Prof, University Hospital Erlangen, Germany

Johann Tang I-Hsiung, MD, Prof, MBBS, FRANZCR, FAMS, Mount Elizabeth Novena Hospital, Singapore

**Host:**

Takashi Kawanaka, MD, PhD, Tokushima University Hospital, Japan

**Faculty members:**

Tibor Major, PhD, National Cancer Institute Budapest, Hungary

Taeko Kawanaka, MD, Japanese Red Cross Tokushima Hospital, Japan

Yasufumi Shitakubo, Radiological technologist, Tokushima University Hospital, Japan

Kanako Sakuragawa, Radiological technologist, Tokushima University Hospital, Japan

## Tuesday 9 September 2025

| Time          | Title   | Speaker          |
|---------------|---|------------------|
| 07:45 – 08:00 | Registration  |                  |
| 08:00 – 08:15 | Welcome   |                  |
| 08:15 – 08:45 | Introduction of participants  | all              |
| 08:45 – 09:30 | Accelerated Partial Breast Irradiation (APBI) – current evidence, facts & myths                                   | V. Strnad        |
| 09:30 – 9:50  | Breast conserving surgery as condition sine qua non for adjuvant APBI – Review of appropriate surgical techniques | Taeko Kawanaka   |
| 9:50 – 10:20  | Patient selection   | J.I. Tang        |
| 10:20 – 10:40 | Break   |                  |
| 10:40 – 11:15 | Target definition   | V. Strnad        |
| 11:15 – 11:45 | Fractionation concepts, radiobiologic considerations  | T. Major         |
| 11:45 – 12:30 | Image-guided brachytherapy - interstitial techniques  | J.I. Tang        |
| 12:30 – 12:50 | Image-guided brachytherapy – SAVI technique   | Takashi Kawanaka |
| 12:55 - 13:10 | Clinical case presentation  | Takashi Kawanaka |
| 13:10 – 14:00 | Lunch   |                  |

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|               |  |   |
|---------------|--|---|
| 14:00 – 15:10 | Live clinical case in operating theatre  | Takashi Kawanaka<br>Y. Shitakubo<br>K. Sakuragawa |
| 15:10 – 15:20 | Questions and discussion live case   | All faculty                                       |
| 15:20 – 15:40 | Break  |   |
| 15:40 – 16:40 | <b>Physics:</b><br>Detailed comparison of techniques for APBI.<br>Treatment planning and dosimetric indices<br>(With focus on multicatheter brachytherapy versus SAVI) | T. Major  |
| 16:40 – 16:50 | Summary of the 1st day   | V. Strnad, J.I. Tang                              |
| 16:50 – 17:30 | Visit Radiation Oncology Department – Division of Brachytherapy  | Takashi Kawanaka                                  |
| 19:00         | Dinner   |   |

### Wednesday 10 September 2025

| Time          | Title   | Speaker             |
|---------------|---|---------------------|
| 08:30 – 09:00 | ACROP / ESTRO - Practical guideline for APBI using Interstitial Multi-catheter Brachytherapy    | V. Strnad, T. Major |
| 09:00 – 10:15 | <b>Hands-on session 1:</b><br>Catheter insertion using phantoms                                 | All faculty         |
| 10:15 – 10:30 | Break   |                     |
| 10:30 – 12:00 | <b>Hands-on session 2:</b><br>Target delineation (physicians) / Treatment Planning (physicists) | All faculty         |
| 12:00 – 13:00 | Lunch   |                     |

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|               |  |                             |
|---------------|--|-----------------------------|
| 13:00 – 13:30 | Salvage-lumpectomy and adjuvant salvage-APBI for in-breast recurrence  | V. Strnad                   |
| 13:30 – 14:00 | Dose volume parameters in organ at risk in breast brachytherapy  | V. Strnad                   |
| 14:00 – 15:00 | <b>Hands-on session 3:</b><br>Target delineation (physicians) / Treatment Planning (physicists)<br>CONTINUED | All faculty                 |
| 15:00 – 15:15 | Break  |                             |
| 15:15 – 15:45 | APBI for DCIS: Indications and results   | J.I. Tang                   |
| 15:45 – 16:15 | New directions of APBI (altered fractionation, salvage-APBI, ...)  | V. Strnad                   |
| 16:15 – 16:45 | Panel discussion   | All faculty                 |
| 16:45– 17:00  | Summary, Closing comments  | V. Strnad, J.I. Tang<br>All |
|               | Adjourn  |                             |